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Vol. 5, No. 1

May 1977

OFFICIAL JOURNAL OF THE PLANT VARIETY PROTECTION OFFICE



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PREFACE

The Plant Variety Protection Act, (7 U.S.C. 2321 et. seq.) authorizes the Secretary of Agriculture to publish an Official Journal and to provide the public with pertinent information relating to the operations of the Plant Variety Protection Office.

The statute also authorizes the Secretary to disseminate technological and other information available to the Office that would encourage innovation and promote progress in plant breeding.

The Official Journal, which is published quarterly, includes instructions issued by the Office and related information. It will be sent free to anyone on request. Send requests to:

Plant Variety Protection Office
Grain & Seed Division, AMS
U.S. Department of Agriculture
Room 301, National Agricultural Library
Beltsville, Maryland 20705

This issue covers the period from January 1, 1977, through March 31, 1977.

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APPLICATIONS RECEIVED

APPL. NO.	DATE	NAME OF APPLICANT	NAME OF KIND	NAME OF VARIETY	NO. OF GEN.
** 7700024	770104	COKEP'S PEDIGREED SEED CO.	COTTON	COKER 304	3
** 7700025	770104	PERMISSION TO PUBLISH NOT RECEIVED	SOYBEAN	BROOKS	3
** 7700026	770118	K+K WHOLESALE SEED CO.	BARLEY	STEFFORD	3
** 7700027	761227	PERMISSION TO PUBLISH NOT RECEIVED	SAFFLOWER	S-400	3
** 7700028	770124	ARKANSAS AGRIC. EXPT. STA.	COTTON	NEW REX	3
** 7700029	770125	PERMISSION TO PUBLISH NOT RECEIVED	WHEAT	VONA	3
** 7700030	770124	PURDUE UNIV. AGRIC. EXPT. STA.	WHEAT	KEY	3
** 7700031	770124	PURDUE UNIV. AGRIC. EXPT. STA.	WHEAT	BEAU	3
** 7700032	770125	ZELDER B. V.	FESCUE	AGRAM	3
** 7700033	770127	PERMISSION TO PUBLISH NOT RECEIVED	BLUEGRASS	TUNDRA	3
** 7700034	770131	ASGROW SEED CO.	SOYBEAN	XP 2376	3
** 7700035	770131	SOYBEAN RESEARCH FOUNDATION, INC.	SOYBEAN	PL 70554D	3
** 7700036	770131	SOYBEAN RESEARCH FOUNDATION, INC.	SOYBEAN	PL 70554L	3
** 7700037	770131	SOYBEAN RESEARCH FOUNDATION, INC.	SOYBEAN	PL 69401C4	3
** 7700038	770131	SOYBEAN RESEARCH FOUNDATION, INC.	SOYBEAN	PL 6712424	3
** 7700039	770131	SOYBEAN RESEARCH FOUNDATION, INC.	SOYBEAN	PL 6712581	3
** 7700040	770131	CHOCOLATE BAYOU CO.	RICE	CB 744	1
** 7700041	770202	J. JOORDENS' ZAADHANDEL B. V.	RYEGRASS	VENLONA	3
** 7700042	770203	PERMISSION TO PUBLISH NOT RECEIVED	COTTON	CASCOT B-2	3
** 7700043	770203	PERMISSION TO PUBLISH NOT RECEIVED	COTTON	CASCOT L-7	3
** 7700044	770203	ROGERS BROTHERS SEED CO.	BEAN	MAJESTIC	3
** 7700045	770208	HARLEY D. JACQUOT	WHEAT	JACMAR	3
** 7700046	770208	CRITES-MOSCOW GROWERS, INC.	PEA	CAN-FREEZ	3
** 7700047	770208	CRITES-MOSCOW GROWERS, INC.	PEA	RIVAL	3
** 7700048	770209	PURDUE UNIV. AGRIC. EXPT. STA.	WHEAT	DOWNY	3
** 7700049	770217	PERMISSION TO PUBLISH NOT RECEIVED	COTTON	WESTBURN M	2
** 7700050	770307	IOWA AGRIC. & HOME ECON. EXPT. STA	SOYBEAN	COLES	3

***TO BE SOLD BY VARIETY NAME AS A CLASS OF CERTIFIED SEED.

APPLICATIONS RECEIVED

APPL. NO.	DATE	NAME OF APPLICANT	NAME OF KIND	NAME OF VARIETY	NO. OF GEN.
** 7700051	770307	IOWA AGRIC. & HOME ECON. EXPT. STA	SOYBEAN	MARION	3
** 7700052	770310	PURDUE UNIV. AGRIC. EXPT. STA.	WHEAT	SULLIVAN	3
** 7700053	770315	PERMISSION TO PUBLISH NOT RECEIVED	WHEAT	C0725052	3
7700054	770315	ACCO SEED	COTTON	PAYMASTER 784	

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CERTIFICATES ISSUED AND NOVELTY BASED ON APPLICANT'S CLAIM

Certificate No.	Issue Date	Owner	Name of Kind	Name of Variety
**7200019	Jan. 28, 1977	The Pennsylvania Agricultural Experiment Station	perennial ryegrass	Pennfine (2)
'Pennfine' is more similar to 'Linn' and 'Manhattan' than other varieties. When grown in Washington State, 'Pennfine' has a smaller flag leaf (138 mm length and 4.29 mm width) than 'Linn' (176 mm length and 5.38 mm width) and 'Pennfine' is 16 days earlier maturing than 'Manhattan.'				
**7200061	Jan. 28, 1977	Zwaan and De Wiljes, Ltd.	smaller cat's tail	Match (2)
'Match' is 4 or more days earlier to head than similar Phleum nodosum L. varieties: 'Mortel,' 'Impresso,' 'Sport,' 'Holea,' 'Barbino,' 'Nodora,' 'Baret,' 'Barosa,' 'Piccolo,' 'Allgreen,' and 'Aberystwyth S50.'				
**7500086	Jan. 28, 1977	Northrup, King and Company	soybean	S 1244 (3)
'S 1244' is most similar to 'Chippewa 64.' It differs from 'Chippewa 64' as follows: (1) 'S 1244' is susceptible to phytophthora root rot; whereas, 'Chippewa 64' is resistant; (2) 'S 1244' is 2 days later in maturity; (3) 'S 1244' has dull seed coat luster; whereas, 'Chippewa 64' has shiny seed coat luster.				
7500094	Jan. 28, 1977	Florida Foundation Seed Producers, Inc.	corn	Florida 56
'Florida 56' most closely resembles 'Iowa 2256.' The primary difference between these inbreds is that 'Florida 56' has the homozygous recessive sh ₂ gene which is demonstrated by the more shrunken seed; whereas, 'Iowa 2256' has the homozygous recessive <u>su1</u> gene.				
7500095	Jan. 28, 1977	Florida Foundation Seed Producers, Inc.	corn	Florida 32
'Florida 32' most closely resembles 'Iowa 2132.' The major difference between these two inbreds is that 'Florida 32' has the homozygous recessive sh ₂ gene which is demonstrated by the more shrunken seed; whereas, 'Iowa 2132' has the homozygous recessive <u>su1</u> gene.				
7600008	Jan. 28, 1977	Bruce Church, Inc.	lettuce	Domingos 42
'Domingos 42' most closely resembles 'Red Coach 74.' 'Domingos 42' differs from 'Red Coach 74' by the ability of 'Domingos 42' to form marketable heads of 140-152 cm diameter for late winter harvest in Imperial Valley, California, and late spring in San Joaquin Valley and Blythe, California, and in Arizona; whereas, 'Red Coach 74' fails to produce marketable heads during those periods, in those areas.				

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CERTIFICATES ISSUED AND NOVELTY BASED ON APPLICANT'S CLAIM

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7600015	Jan. 28, 1977	Canners Seed Corporation	pea	#5147 Dark Skin Perfection
'#5147 Dark Skin Perfection' most closely resembles 'Dark Skin Perfection'; however, the leaves and pods of '#5147 Dark Skin Perfection' are Grey-Green 189A and those of 'Dark Skin Perfection' are Grey-Green 191A in the Royal Horticultural Society Colour Chart.				
7600026	Jan. 28, 1977	Morrison Brothers Seed Company	pea	Sagittarius
'Sagittarius' most closely resembles 'Bonus' but 'Sagittarius' is 7 cm shorter in vine height and 'Sagittarius' seed weigh 4.58 gm more per 100 seed than 'Bonus.' 'Sagittarius' is resistant to Fusarium wilt race 1; whereas, 'Bonus' is not resistant to Fusarium wilt race 1.				
**7600028	Jan. 28, 1977	Turf-Seed, Inc.	perennial ryegrass	Omega (2)
'Omega' most closely resembles 'Manhattan' perennial ryegrass. 'Omega' is ten days earlier to anthesis than 'Manhattan' in New Jersey.				
7600039	Jan. 28, 1977	Moran Seeds, Inc.	lettuce	Morangold
'Morangold' most closely resembles 'Cal K-60' but 'Morangold' is 2-3 days earlier than 'Cal K-60.'				
7100071	Feb. 15, 1977	Texas Agricultural Experiment Station of Texas A & M University	weeping lovegrass	Renner
'Renner' differs from other weeping lovegrass varieties in being a "robusta" type. As such, 'Renner' has blue-green foliage, semi-prostrate growth habit and dark reddish-brown seeds which are smaller in size than seeds of the "curvula" type. The other commercial varieties, 'Ermelo,' 'Morpa,' and 'Common' (Apomictic source 'A-67'), are of the "curvula" type with green foliage, erect growth habit, and light brown, translucent seeds. 'Renner' is also less cold hardy and heads earlier than any of the other varieties.				

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<u>Certificate No.</u>	<u>Issue Date</u>	<u>Owner</u>	<u>Name of Kind</u>	<u>Name of Variety</u>
7200054	Feb. 15, 1977	W. Atlee Burpee Company	squash	Burpee Golden Zucchini
'Burpee Golden Zucchini' is most similar to 'Fordhook Zucchini.' 'Burpee Golden Zucchini' has orange or light lemon yellow to chrome yellow fruits; whereas, 'Fordhook Zucchini' has green fruits.				
**7200065	Feb. 15, 1977	Zwaan and De Wiljes, Ltd.	perennial ryegrass	Sprinter (2)
'Sprinter' is more similar to 'Lamora,' 'Barenza,' 'Vigor,' 'Compas,' 'Springfield,' and 'Maestro,' than other varieties. 'Sprinter' differs from 'Lamora,' 'Barenza,' and 'Compas,' by having a darker foliage color, dark green versus medium green, and matures five or more days later. 'Sprinter' has significantly darker green foliage color and has a more prostrate growth habit and faster spring growth than 'Vigor,' 'Springfield,' and 'Maestro.'				
**7200119	Feb. 15, 1977	Oklahoma Agricultural Experiment Station, Agricultural Research Service, USDA	weeping lovegrass	Morpa (2)
'Morpa' browns more completely under drought and cold stress than other varieties. Compared to 'Ermelo,' 'Morpa' is 1 to 2 days later in heading. Compared to 'Common' (source 'A-67,' apomictic), 'Morpa' is 6 to 8 days later in heading, 8 to 10 cm taller and has darker panicles and 0.5 to 1.0 mm wider leaves. 'Morpa' has green foliage and light brown seeds; whereas, 'Renner' has blue-green foliage and reddish-brown seeds. In addition, the seeds of 'Morpa' are larger than the seeds of 'Renner.'				
**7400064	Feb. 15, 1977	Purdue University Agricultural Experiment Station, and A.R.S., U.S.D.A.	oat	Stout (3)
'Stout' most closely resembles 'Clintford,' but 'Stout' is 7-8 cm shorter, with stiffer culms than 'Clintford.' Also 'Clintford' shows a susceptible reaction when inoculated with races 216, 264, and 326 of crown rust, while 'Stout' reacts by developing large necrotic areas with only limited sporulation.				

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<u>Certificate No.</u>	<u>Issue Date</u>	<u>Owner</u>	<u>Name of Kind</u>	<u>Name of Variety</u>
7600011	Feb. 15, 1977	W. Atlee Burpee Company	marigold	Red Pygmy
'Red Pygmy' most closely resembles 'Redcoat.' At maturity, the most obvious differences between these varieties are as follows: Leaves of 'Red Pygmy' are smaller (8 cm x 6.0 cm vs. 11 cm x 8.5 cm); flower heads of 'Red Pygmy' are smaller in diameter (35 mm vs. 38-50 mm); plants of 'Red Pygmy' are shorter (18 cm vs. 20 cm) and more compact (33 cm spread vs. 43 cm spread).				
**7670016	Feb. 15, 1977	McNair Seed Company	soybean	McNair 500 (3)
'McNair 500' most closely resembles 'Lee 74.' 'McNair 500' is in maturity group V and its seeds have light brown hila; whereas, 'Lee 74' is in maturity group VI and its seeds have dark brown hila.				
**7100043	March 18, 1977	J. Joordens' Zaadhandel B.V.	annual ryegrass	Aubade (3)
'Aubade' is more similar to 'Tewera' and 'Barspectra' than other varieties. 'Aubade' differs from 'Tewera' and 'Barspectra' by being 4 days earlier.				
**7400035	March 18, 1977	McNair Seed Company	tobacco	McNair 944 (3)
'McNair 944' most nearly resembles 'Coker 319,' but 'McNair 944' is resistant to black shank (vs. susceptible), and has a higher percent sugar (15.82 vs. 13.87) than 'Coker 319.'				
**7400063	March 18, 1977	Purdue University Agricultural Experiment Station and A.R.S., U.S.D.A.	oat	Noble (3)
'Noble' most closely resembles 'Tippecanoe,' but 'Noble' is one to two days later and two inches shorter than 'Tippecanoe.'				
**7500063	March 18, 1977	Iowa Agriculture and Home Economics Experiment Station	reed canarygrass	Vantage (2)
'Vantage' is more similar to 'Rise,' 'Ioreed,' 'Frontier,' 'Grove,' and 'Castor' than other varieties. 'Vantage' contains only the alkaloid gramine; whereas, 'Grove,' 'Rise,' 'Frontier,' and 'Castor' contain gramine and other alkaloids. 'Ioreed' has poorer seed retention and seed yield in comparison with 'Vantage.'				
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**7500078	March 18, 1977	Zwaan & De Wiljes, Ltd.	perennial ryegrass	Score (3)
'Score' is more similar to 'Manhattan,' 'Sprinter,' and 'Pennfine' than other varieties. 'Score' differs from 'Manhattan' by maturing 6 days later and having significantly lighter green foliage color. 'Score' differs from 'Sprinter' by being 10 days earlier in maturity and having significantly lighter green foliage color. 'Score' differs from 'Pennfine' by being 20 days later in maturity.				
**7500093	March 18, 1977	Purdue University Agricultural Experiment Station, and A.R.S., U.S.D.A.	oat	Allen (3)
'Allen' most closely resembles 'Clintford' and 'Noble.' The lemmas of 'Allen' are light reddish yellow (Munsell Color Code 10YR 7/4 to 10YR 7/6) and fluoresce under ultraviolet light; whereas, lemmas of 'Clintford' are darker reddish yellow (Munsell Color Code 10YR 8/4 to 10YR 8/6) and lemmas of 'Noble' are nonfluorescent. 'Clintford' heads one day later than 'Allen.' 'Allen' is resistant to crown rust races 216, 239, and 290; whereas, 'Clintford' and 'Noble' are susceptible to these races.				
**7600010	March 18, 1977	Oklahoma Agricultural Experiment Station	wheat	Osage (3)
'Osage' is most similar to 'Sage.' 'Osage' is susceptible to wheat streak mosaic virus; whereas, 'Sage' is tolerant.				
7600043	March 18, 1977	ACCO Seed	cotton	Paymaster 266
'Paymaster 266' is most similar to 'Paymaster 111-A' but 'Paymaster 266' is resistant (vs. susceptible) to verticillium wilt, has a 3 unit higher uniformity ratio (49 vs. 46) and has less sharply pointed bolls than 'Paymaster 111-A.'				
7600068	March 18, 1977	DeKalb AgResearch, Inc.	wheat	RL58
'RL58' is most similar to 'Sturdy' wheat. 'RL58' has the ability to restore pollen fertility in Timopheevi cytoplasm; whereas, 'Sturdy' does not. 'RL58' also has taller, weaker straw and stronger gluten properties than 'Sturdy' wheat.				
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**7600076	March 18, 1977	Colorado State Experiment Station	wheat	Lindon (3)

'Lindon' is most similar to 'Centurk.' 'Lindon' differs from 'Centurk' by being 6 inches shorter than 'Centurk.'

United States Department of Agriculture
Agricultural Marketing Service
Grain and Seed Division
Plant Variety Protection Office, Rm. 301
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